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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/658,622	09/09/2003	Toby E. Smith	67179/03-655	2550
22206 7.	590 07/21/2005		EXAMINER	
FELLERS SNIDER BLANKENSHIP BAILEY & TIPPENS THE KENNEDY BUILDING 321 SOUTH BOSTON SUITE 800 TULSA, OK 74103-3318			MULLEN, THOMAS J	
			ART UNIT	PAPER NUMBER
			2632	
			DATE MAILED: 07/21/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/658,622	SMITH ET AL.				
Office Action Summary	Examiner	Art Unit				
	Thomas J. Mullen, Jr.	2632				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period we Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	66(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 13 Ju	ne 200 <u>5</u> .					
2a)⊠ This action is FINAL . 2b)□ This	action is non-final.					
	Since this application is in condition for allowance except for formal matters, prosecution as to the ments is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) ☐ Claim(s) 1-35 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) 13.14.21-26 and 28-35 is/are allowed. 6) ☐ Claim(s) 1.2.4-6.8.12.15.16.18-20 and 27 is/are 7) ☐ Claim(s) 3.7.9-11 and 17 is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	e rejected.					
Application Papers						
9) The specification is objected to by the Examine	r.					
10)☐ The drawing(s) filed on is/are: a)☐ acce						
Applicant may not request that any objection to the o						
Replacement drawing sheet(s) including the correcting 11) The oath or declaration is objected to by the Ex		• •				
Priority under 35 U.S.C. § 119						
a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list of	s have been received. s have been received in Applicati ity documents have been receive (PCT Rule 17.2(a)).	on No ed in this National Stage				
Attachment(s)						
Notice of References Cited (PTO-892)	4) Interview Summary					
2)	Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	atent Application (PTO-152)				
D-11111						

Application/Control Number: 10/658,622

Art Unit: 2632

1. The amendment filed 6/13/05 has been fully considered.

2. Claim 27 remains rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

Claim 21 recites, among other elements, an "optically transmissive central core" (line 7). The only disclosed embodiments having such a "core" are those of Figs. 12A-12F (wherein the devices 1210, 1212 and 1214 of Figs. 12A-12E may have a "tubing of an internally clear material such as plastic", which is considered to meet the definition of a "core"--discussed further below--and the device 1216 of Fig. 12F is described as having "core" 1240 per se--see paragraphs 0069 and 0073-0074 in the specification). However, claim 27 (which depends from claim 21) recites that the optically conductive material is a "sheet", which is clearly not a "core" based on the brief characterization of a "core" in the specification (i.e., "a light conductive plastic, an optical wave guide, etc."), and as the term "core" would be understood by those skilled in the art of optical communications; note, e.g., that an optical fiber is generally defined as having a central "core" of cylindrical cross-section, and an outer "cladding" surrounding the core. Thus, the specification and drawings fail to provide enablement for what is presently recited in claim 27.

3. Claims 1-2, 4-6, 8, 12, 15-16 and 18-20 remain rejected under 35 U.S.C. 102(e) as being anticipated by Menkedick et al. (US 6320510).

Note in Menkedick et al., apparatus comprising patient support surface 36,38 (Fig. 1); patient location sensor(s) 70,104 (see Figs. 7-8); time circuit (note "timer", col. 14, line 5); microprocessor or monitor circuit (controller 50, which is typically "microprocessor based"--col. 9, lines 27-28); and alarm (indicator lights 136, audible/visual alarm control 138, room lights 140, nurse call alarm 142, etc.--see Figs. 6-7 and col. 10, lines 39-46). Controller 50 (Fig. 7) initiates a signal indicative of a state of the patient based on output signals from the sensors (70 and/or 104) and "timer", wherein the system may operate in one of "several different modes" or environments (col. 10, lines 1-5). In the "bed sores" monitoring environment (col. 16, line 1),

Application/Control Number: 10/658,622

Art Unit: 2632

Menkedick et al. discloses a "patient turn interval" of, e.g., "two hours" (col. 16, line 3), i.e. the length of time since a patient last "changed location" is monitored; further, Menkedick et al implicitly defines "significant" patient movement by detecting when the patient moves "on the bed" from one location to another (see col. 15, line 52 to col. 16, line 10), as determined by outputs from sensor 104. In particular, sensor 104 includes multiple resistive pressure sensors 114-124 (see Fig. 8 and col. 9, lines 36-50), positioned at selected spaced locations on deck 22 of the bed, whose outputs (col. 9, lines 59-60) are used by controller 50 for "determining at least approximately a location of the patient on the support surface (36,38)" (see col. 8, lines 58-59 and col. 9, lines 60-63), i.e. controller 50 is able to determine the relative location of the patient on the bed and thus whether any "significant" movement has occurred.

Regarding claims 2, 4 and 18, Menkedick et al. teaches that "other types of sensors" may be used as sensor 104 (col. 12, lines 7-20), which types implicitly may form or comprise at least a "bed mat" and/or "strain gages".

Regarding claims 5 and 19, Menkedick et al. teaches various audible and/or visual "alarms" as discussed above.

Regarding claim 6, patient location sensor(s) 70 are "load cells...which are mounted at the four corners of the weigh frame 18" (see Fig. 3), and thus are "weight" sensors positioned "proximate to at least one of (the) bed legs" (i.e., proximate to casters 14).

Regarding claim 8, weigh frame 18 (discussed above) is inherently a "mattress support surface" (note mattress 38), the "weight" sensors 70 (also discussed above) being placed "proximate to a corner of (the) mattress support surface".

Regarding claims 12 and 20, as noted above controller 50 is typically "microprocessor based", and Menkedick et al further teaches that "the word controller is used broadly to include any type of control circuitry" necessary to carry out the intended functions (col. 9, lines 32-35), and thus controller 50 may be any of several (if not all) of the types listed, such as a "microcontroller".

4. Claims 3, 7, 9-11 and 17 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Application/Control Number: 10/658,622

Art Unit: 2632

Claim 27 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, 1st paragraph, set forth in this Office action.

Claims 13-14, 21-26, 28-35 are allowed.

5. Applicant's arguments filed 6/13/05 have been fully considered but they are not persuasive.

As to the issues raised under 112(1), applicant's arguments are generally accepted as to the light source and light sensor being "in optical communication with" the first end and second end of the core, but are not accepted with respect to claim 27 for reasons discussed in paragraph 2 above.

As to Menkedick et al, applicant initially asserts that "nowhere in Menkedick (et al) is the concept of monitoring a patient for 'significant <u>movement</u>' disclosed or suggested" (emphasis added); however, it is pointed out that the claims use the phrase "significantly <u>changed location</u>" (e.g. part (c2) of claim 1), rather than the phrase "significant <u>movement</u>".

More particularly, applicant alleges that the term "significant" (and, by implication, the claim language "the patient...significantly changed location") must be construed based on the detailed teaching set forth in paragraph 0089 of the specification, wherein if a patient changes position and returns to the original position prior to expiration of a time period, such movement is not a "significant" movement. However, nowhere in claims 1 and 15 (or in any claims dependent therefrom) is there any mention of a patient returning to an original position or maintaining a changed position, either within or outside of a time period, nor do the claims specify any particular time/location criteria, associated with the "intiat(ed)...signal", to which the alarm is responsive (e.g., the claims do not even specify that the alarm corresponds to lack of significant movement, as opposed to excessive significant movement(s) or some other "patientstate" parameter(s)). Giving the term "significantly" its broadest reasonable interpretation, Menkedick et al clearly teaches a form of "significant" patient movement, as opposed to simply responding to any movement, as discussed in paragraph 3 above (note e.g. col. 9, line 60 to col. 10, line 4 in Menkedick et al, where a patient's relative position "on the deck" and "on the bed" is discussed; also, see col. 15, lines 52-66). Note that since the claims are not written in "meansplus-function" format, there is no basis for invoking 35 U.S.C. 112, 6th paragraph for the

Art Unit: 2632

purpose of construing the claim language in the manner discussed by applicant. Also, it was held in <u>In re Self</u>, 213 USPQ 1,5 (CCPA 1982) that limitations in the specification cannot be read into the claims for the purpose of avoiding the prior art. Therefore, applicant's assertion that the claims are "clearly distinguishable from Menkedick (et al.)" is not persuasive.

6. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thomas J. Mullen, Jr. whose telephone number is 571-272-2965. The examiner can normally be reached on Monday-Thursday from 6:30 AM to 4 PM. The examiner can also be reached on alternate Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Daniel Wu, can be reached on (571) 272-2964. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 571-272-2600.

TJM

Thomas J. Mullen, Jr. Primary Examiner Art Unit 2632